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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,108	09/09/2003	Gerald H. Negley	5308-311	4336
7590 10/15/2004			EXAMINER	
Mitchell S. Bi	gel		LE, THAO X	
Myers Bigel Sil	bley & Sajovec, P.A.			
P.O. Box 37428 Raleigh, NC 27627			ART UNIT	PAPER NUMBER
			2814	

DATE MAILED: 10/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		·		[118			
		Application No.	Applicant(s)				
Office Action Summary		10/659,108	NEGLEY ET AL.				
		Examiner	Art Unit				
		Thao X Le	2814				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	S			
A SH THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this commun D (35 U.S.C. § 133).	ication.			
Status							
1)🛛	Responsive to communication(s) filed on <u>09 Second</u>	eptember 2003.					
2a)□	·	action is non-final.					
3)	Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the mer	rits is			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposit	ion of Claims						
4)🖂	Claim(s) <u>1-28</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5)□	Claim(s) is/are allowed.						
6)	_ , , , ,						
7)	.,,						
8)⊠	Claim(s) <u>1-28</u> are subject to restriction and/or of	election requirement.					
Applicat	ion Papers						
•	The specification is objected to by the Examiner.						
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
		Carrier Hote the attached office		- <del></del>			
-	under 35 U.S.C. § 119						
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stag	je			
* (	See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachmer	nt(s)						
_	ce of References Cited (PTO-892)	4) ☐ Interview Summary Paper No(s)/Mail D					
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		ate Patent Application (PTO-152	)			

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-20, drawn to a semiconductor device, classified in class 257, subclass 98-100.
  - II. Claims 21-28, drawn to a method of manufacturing a semiconductor device, classified in class 438, subclass 22, 25-27, and 29.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions Group I and Group II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case that the product as claimed can be made by another and materially different process. For example, the oxygen can be implanted into the aluminum material, instead of oxidizing, to form an aluminum oxide layer.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao X Le whose telephone number is (571) 272-1708. The examiner can normally be reached on M-F from 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M Fahmy can be reached on (571) 272 -1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao X. Le 12 Oct. 2004